

**Petroleum Release Section/Petroleum Tank Release Compensation Board
Groundwater Monitoring And Sampling
Unit Cost Worksheet**

Contractor Information

Company Name: _____

Address: _____

City, State, Zip: _____

Phone: _____

Fax: _____

Cost Estimator: _____

Project Information

Site Name: _____

Facility ID # _____

Address: _____

Release # _____

City: _____

Monitoring Well Details

Total Number of Wells at Site _____

Number of Wells to be monitored _____

Number of Wells to be monitored/sampled _____

Well Casing Diameter (inches) _____

Average Depth to Groundwater (ft) _____

Average Depth of Wells (ft) _____

Well Purging Method

Hand bailing _____

Peristaltic Pump _____

Submersible Pump _____

Micropurge _____

No Purge _____

Other (please specify) _____

Monitoring/Sampling Interval

Estimated Start Date: _____

Quarterly # of events _____

Semi-annual # of events _____

Annual # of events _____

Other (please specify) _____

Other Services

Free Product Recovery _____

Groundwater Well Survey _____

Wellhead retrofit/reconstruction _____

Other (please specify) _____

Cost Estimate Explanation: _____

⁽¹⁾ **Mobilization/Demobilization:** Includes all costs and mileage to transport equipment, materials, and personnel to and from the site location. More than one mobilization event will require justification and pre-approval by the DEQ-PRS and Board staffs. This item should be estimated on a per mile unit rate.

⁽²⁾ **Water Level Measurements:** Includes all costs (labor, equipment, materials, and well consumables) to measure groundwater depth, collect other groundwater information from well, and decontaminate equipment. The well monitoring costs should be estimated on a per well basis and does not include purging and sampling of the well.

⁽³⁾ **Well Monitoring/Purging/Sampling:** Includes all costs (labor, equipment, materials, and well consumables) to monitor (see above), purge, sample groundwater, decontaminate equipment, and handle disposal of contaminated purge water. The cost should be estimated on a per well basis.

⁽⁴⁾ **Laboratory Analysis:** Includes all laboratory costs for all wells, for duration of project. It is realized that some laboratory analyses will not be conducted for every event and that the well sampling frequency may change.

⁽⁵⁾ **PTRCB Sampling Fee:** Includes all costs related to management of the sample including: sample container, cooler, packing, shipping, handling, sample preservation, and office related handling charges.

⁽⁶⁾ **Report Preparation and Project Management:** Includes all costs (labor and materials) project management, report preparation, and report submittal, including all office related costs, per groundwater sampling event.

Groundwater Monitoring and Sampling Unit Cost Worksheet

Task	Unit Cost	Number of Units	Total Cost
<u>Project Management</u>	/hr		\$
<u>Mobilization/Demobilization⁽¹⁾</u>			
Mobilization/Demobilization	/mile		\$
<u>Field Work</u>			
Water Level Measurements ⁽²⁾		/well	\$
Well Monitoring/Purging/Sampling ⁽³⁾	/well		\$
Other Service (please specify) _____			\$
Other Service (please specify) _____			\$
<u>Report Preparation⁽⁶⁾</u>			
Quarterly/Semi-annual	/report		\$
Annual	/report		\$
Other (please specify) _____			\$
SUBTOTAL PROJECT EXPENSE			\$
<u>Lodging and laboratory analysis may only be paid at actual cost when documented by receipts and invoices.</u>			
<u>Per Diem</u> *(specify number of individuals)			
Per Diem: Motel* - # of people	/person per day		
Per Diem: Food* - # of people	\$23.00/person per day		\$
<u>Laboratory Analysis⁽⁴⁾</u>			
Volatile Petroleum Hydrocarbons (VPH)	/sample		\$
Extractable Petroleum Hydrocarbons (EPH)			
EPH "screen"	/sample		\$
EPH "fractions"	/sample		\$
BTEX/MTBE/Naphthalene only-method:	/sample		\$
Polyaromatic Hydrocarbons (PAHs)	/sample		\$
PTRCB sampling fee ⁽⁵⁾	/sample		\$
Other (please specify) _____	/sample		\$
Other (please specify) _____	/sample		\$
SUBTOTAL OF PER DIEM AND LAB			
Estimated Project Expense per event (provide number of events in box)			

Special Conditions/Costs:

Additional Comments/Costs: